

INVINCIBLE COLLIERY

Monthly Environmental Monitoring Data

for

Castlereagh Coal

1 INTRODUCTION

Castlereagh Coal owns and operates Invincible Colliery located near Cullen Bullen in the Central West district of New South Wales. This report has been prepared pursuant to Chapter 2, Part 3.5, Condition 66(6) of the Protection of the Environment operations Act 1997 for the publication of results of monitoring and the NSW Environmental Protection Authority guideline titled Requirements for publishing pollution monitoring data (2013).

2 ENVIRONMENTAL PROTECTION LICENCE DETAILS

Licensee: Shoalhaven Coal Pty Ltd

Address: Invincible Colliery, Castlereagh Highway, Cullen Bullen, NSW 2790

Link: https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=287085&SYSUID=1&L

ICID=1095

3 ENVIRONMENTAL PROTECTION LICENCE DETAILS

3.1 DEPOSITIONAL DUST

All depositional dust sampling locations were in compliance with the rolling annual average limit (4 g/m²/month) for the period February 2024 to January 2025. The maximum annual increase in deposited dust levels is also below the criteria limit of 2 g/m²/month.

Depositional dust monitoring results are presented in **Table 1**.



Table 1: Depositional Dust Monitoring Results: January 2025

Obtained: Published:	14/03/2025 20/03/2025	Premise: Licensee: EPL Number:	Invincible Colliery Shoalhaven 1095		
Sampling Point	Start Date	Exposure Period: End Date	28 days Insoluble Solids (g/m²/month)	Rolling Annual Average (g/m²/month)	
ID-D1 (EPA Point 3)	09/01/2025	06/02/2025	1.6	1.02	
ID-D2 (EPA Point 4)	09/01/2025	06/02/2025	0.8	1.41	
ID-D3 (EPA Point 5)	09/01/2025	06/02/2025	0.9	0.86	
ID-D4 (EPA Point 6)	09/01/2025	06/02/2025	1.8	0.95	
ID-D5 (EPA Point 7)	09/01/2025	06/02/2025	0.9	0.82	
ID-D6 (EPA Point 8)	09/01/2025	06/02/2025	2.1	1.19	
Annual Average Limit 4.0					

Required Frequency: Monthly - exposure period 30 ± 2 days

3.2 PM10 AND TSP

The 24-hour maximum PM_{10} particulate matter concentration less than 10 microns (PM_{10}) criterion of 50 μ g/m³ was not exceeded during January 2025.

The TSP and PM₁₀ annual rolling average results were calculated with the available data for the period of February 2024 to January 2025.

The average values were less than the annual average EPL limit as presented in Table 2.

Table 2: High Volume Air Sampler Monitoring Results: January 2025

		Premise:	Invincible Colliery
Obtained:	Yet to be obtained	Licensee:	Shoalhaven
Published:	19/03/2025	EPL Number:	1095
Sampling Point	Run Date	PM10 (μg/m³)	TSP (µg/m³)
	04/01/2025	25	12
	10/01/2025	28	12
HVAS1 (EPA Point 3)	16/01/2025	13	40
	22/01/2025	24	41
	29/01/2025	12	24
R	olling Annual Average	11.40	18.32
(Calculation period February 2024 to			
	January 2025)		
	24 Hour Limit	50	
	Annual Average Limit	30	90

Required Frequency: Weekly - High Volume Air Sample run events occur every six days for 24 hours.

4 SURFACE WATER QUALITY

A discharge event is deemed to occur when water leaves the site either through the overflow channel of the Main Dam or as a result of actively pumping water. No discharge occurred from the Main Dam Discharge Point 2 (LD002) during January 2025. A monthly sample was collected from the Main Dam for due diligence purposes only.

⁻⁻ No Limit

MONTHLY ENVIRONMENTAL MONITORING DATA January 2025



Water quality results are presented in **Table 3**.

Table 3: Discharge Water Quality Results - January 2025

Sampled: Obtained:	24/01/2025 14/03/2025	Premise: Licensee:	Invincible Colliery Shoalhaven	
Published:	19/03/2025	EPL Number:	1095	
	_	,	100 Percentile	Sample
Sampling Point	Frequency	Pollutant	Concentration	Concentration
			Limit	
Main Dam	Monthly (for	pH (pH unit)		7.6
	due	TSS (mg/L)		20
	diligence)	Oil & Grease (mg/L)		<5
Discharge Point 2	Weekly	pH (pH unit)	6.5 - 8.5	N/A
(LD002)	during	TSS (mg/L)	30	N/A
(EPA Point 2)	discharge	Oil & Grease (mg/L)	10	N/A

⁻⁻No limit applies

5 NOISE LIMITS

Attended noise monitoring is required to be undertaken on a quarterly frequency. Noise Monitoring reports for previous quarters are available on the Castlereagh Coal website: https://ccoal.com.au/environmental-reporting-compliance/

6 BLASTING

No blasting was undertaken during January 2025.

7 DISCLAIMER

This report is considered accurate at the date of issue with regard to current environmental conditions. Monitoring results may vary from those presented in this report following further assessment. This report must not be reproduced except in full. Results or figures from this report must not be used without acknowledgment.

Yours Faithfully,

CASTLEREAGH COAL